

E1
control circuitry, carried in the housing coupled at least to the capacitor, and the specifying element and instructions for charging the capacitor in a closed control loop in accordance with the specifying element and received voltage to drive the source to produce the specified candela; and

wherein the processor executes pre-stored instructions for altering a charging rate of the capacitor in response to a selected candela output parameter.

Please cancel claim 71 without prejudice.

Please amend claim 72 as follows:

E2
72. (Amended) A strobe as in claim 68 wherein the control circuitry illuminates the source, at least at a first predetermined rate, and wherein the instructions alter the charging rate between illuminations.

84. (Amended) A strobe comprising:

a housing;

a light source;

a capacitor coupled to the source;

a candela specifying element;

E3
input terminals for receipt of voltages in one of a range of 8-17 volts or 16-33 volts;

control circuitry, carried in the housing, coupled at least to the specifying element and a feedback circuit, the feedback circuit is also coupled to the capacitor wherein the control circuit alters a capacitor charging parameter in response to at least one feedback signal from the feedback circuit so as to produce the specified candela output at the light source; and

wherein the at least one feedback signal comprises one of a digitized capacitor voltage value or a selected signal transition indicative of a capacitor voltage.

Please cancel claim 85 without prejudice.

87. (Amended) A strobe comprising:

a housing;

a light source;

a capacitor coupled to the source;

E4
a candela specifying element;

input terminals for receipt of voltages in one of a range of 8-17 volts or 16-33 volts;

control circuitry, carried in the housing, coupled at least to the specifying element and a feedback circuit, the feedback circuit is also coupled to the capacitor wherein the control circuit alters a capacitor charging parameter in response to at least one feedback signal from the feedback circuit so as to produce the specified candela output at the light source;

capacitor drive circuitry coupled between the control circuitry and the capacitor; and

wherein the drive circuitry alters a capacitor charging current duty cycle in response to the control circuitry.

88. (Amended) A strobe comprising:

a housing;

a light source;

a capacitor coupled to the source;

a candela specifying element;

input terminals for receipt of voltages in one of a range of 8-17 volts or 16-33 volts;

control circuitry, carried in the housing, coupled at least to the specifying element and a feedback circuit, the feedback circuit is also coupled to the capacitor wherein the control circuit alters a capacitor charging parameter in response to at least one feedback signal from the feedback circuit so as to produce the specified candela output at the light source;

capacitor drive circuitry coupled between the control circuitry and the capacitor; and

wherein the drive circuitry includes a constant frequency, variable duty cycle capacitor charging current generator coupled to the control circuitry and to the capacitor wherein the control circuitry varies the charging current duty cycle in response to both the feedback signal and the candela specifying element.

89. (Amended) A strobe comprising:

a housing;

a light source;

a capacitor coupled to the source;
a candela specifying element;
input terminals for receipt of voltages in one of a range of 8-17 volts or 16-33
volts;

control circuitry, carried in the housing, coupled at least to the specifying element and a feedback circuit, the feedback circuit is also coupled to the capacitor wherein the control circuit alters a capacitor charging parameter in response to at least one feedback signal from the feedback circuit so as to produce the specified candela output at the light source; and

wherein the duty cycle is adjusted periodically in response to the feedback signal.

90. (Amended) A strobe comprising:

a housing;
a light source;
a capacitor coupled to the source;
a candela specifying element;
input terminals for receipt of voltages in one of a range of 8-17 volts or 16-33
volts;

control circuitry, carried in the housing, coupled at least to the specifying element and a feedback circuit, the feedback circuit is also coupled to the capacitor wherein the control circuit alters a capacitor charging parameter in response to at least one feedback signal from the feedback circuit so as to produce the specified candela output at the light source; and

wherein the control circuitry alters the charging current parameter periodically.

91. (Amended) A strobe comprising:

a housing;
a light source;
a capacitor coupled to the source;
a candela specifying element;
input terminals for receipt of voltages in a range of 8-17 volts and a range of 16-
33 volts;

control circuitry, carried in the housing, coupled at least to the specifying element and a feedback circuit, the feedback circuit is also coupled to the capacitor wherein the control